

METHODS FOR THE PRODUCTION OF HYDROGEN

Abstract

Methods, processes, and apparatuses for the production of hydrogen gases are provided. A catalytic amount of iodine is dissolved in a hydrocarbon fuel source, such as cyclopropane and/or benzene, and the mixture is heated to a temperature greater than about 80°C. A reaction vessel capable of maintaining pressures greater than 1 atmosphere is used. The hydrogen gas thus produced is recovered, and optionally purified.